

Statistics Department

Assignment – No. – 02

Statistics paper – STA - 202

- 1 Define the term Vital Statistics. State its uses.
- 2 Define the terms: Crude death rate, Standardized death rate, Age specific Death Rate. Also, mention their uses.
- 3 State different methods of collecting Vital Statistics. State the method of registration.
- 4 Describe the measurements of fertility stating their uses.
- 5 Explain the terms : (i) Crude Death Rate, (ii) Standardised Death Rate
- 6 Explain the terms (i) C.B.R, (ii) A.S.F.R., (iii) T.F.R.

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Age Group	Women	Births
15 – 19	16000	280
20 – 24	16400	2245
25 – 29	158000	1945
30 – 34	15300	1230

- 8 Give meaning of G. R. R. And N. R. R.
- 9 What the term l_x, p_x of life table indicates?
- 10 Explain the terms : (i) Crude Birth Rate, (ii) General Fertility Rate. Age specific fertility Rate, Total Fertility Rate.
- 11 Explain the method of registration.
- 12 Explain the terms (i) C.D.R, (ii) Standardised Death Rate. Using the following data, find which of the two cities A and B you would suggest as more healthy city.

Age	City A		City B	
	Population	Deaths	Population	Deaths
0 – 20	15000	300	20000	250
20 – 40	20000	500	25000	640
40 – 60	12000	100	10000	280
60 – 80	2000	60	2000	100
Above 80	500	20	500	75

- 13 Explain, in detail, life tables, its different terms and notations.
- 14 Describe risk models for aggregate claims. Also define individual risk model.
- 15 Explain utility theory, in brief.
- 16 Define: Multiple life function, joint life survivor, last survivor status
- 17 Define National Income. Explain, in brief, income distribution function.
- 18 State different methods of Estimating National Income. Describe any one of them.
- 19 Explain in detail, pareto curve. Interpret the constant used in pareto curve.
- 20 Define Lorenze curve. State its use. Explain the procedure of drawing lorenze curve.
- 21 Describe inequality of income and Ginni's coefficient.